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10/718,642

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EXAMINER

DAM, KIM LYNN

ART UNIT

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2179

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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/718,642	<b>Applicant(s)</b> LEUNG ET AL.	
	<b>Examiner</b> KIM-LYNN DAM	<b>Art Unit</b> 2179	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 13 February 2009.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1,2,4-6,8-10,12-14 and 16-34 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1, 2, 4-6, 8-10, 12-14, 16-34 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

1. This office action is in response to the amendment filed on 2/19/09.
2. Claims 1, 2, 4-6, 8-10, 12-14, 16-34 have been examined and are pending.  
Claims 3, 7, 11 and 15 have been cancelled. Claims 1, 8, 22-25 and 28 are independent.

### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-2, 4-6, 8-10, 12-14, 16-19, 22-32 and 34 are rejected under 35 U.S.C. 102(e) as being anticipated by Bogward (US 20040049743).

Regarding claim 1, Bogward disclosed a portable computing device comprising:

a display (Paragraphs [0012], [0190]; Figures 1,2 and 18); and  
a touch-sensitive display which is secondary and attachable to the display  
(Paragraphs [0012], [0190]; Figures 1,2 and 18),

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wherein said display and said touch-sensitive display display two adjoining display portions of a single display output (Paragraphs [0012], [0256]; Figures 1, 2, 52d),  
wherein only said touch-sensitive display is touch-sensitive (Figures 18 and 103).

Regarding claim 2, Bogward disclosed the portable computing device of claim 1, wherein the touch-sensitive display is rotatably attachable to the display (Paragraphs [0156], [0190]; Figures 1, 18 and 19).

Regarding claim 4, Bogward disclosed the portable computing device of claim 1, wherein said touch-sensitive display displays a user-interface that overlays a portion of said single display output (Paragraph [0012]; Figures 1, 2 and 32).

Regarding claim 5, Bogward disclosed the portable computing device of claim 4, wherein the user-interface comprises a pointing device (Paragraphs [0012] and [0158]).

Regarding claim 6, Bogward disclosed the portable computing device of claim 4, wherein the user-interface is reconfigurable in accordance with an instruction from a software application being executed on the portable computing device (Paragraphs [0062], [0170], [0205] and [0253-0262]; Figures 48, 52b-d, and 53; where interface is reconfigurable depending on settings, configurations, right/hand left hand modes, applications of use).

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Regarding claim 8, Bogward disclosed a method of driving a portable computing device having a display attachable to a touch-sensitive display that is secondary and attachable to the display, the method comprising:

displaying a first of two adjoining display portions of a single display output in one of said display and said touch-sensitive display (Paragraphs [0012], [0190]; Figures 1,2 and 18);

displaying a second of said two adjoining display portions of said single display output in the other of said display and said touch-sensitive display (Paragraphs [0012], [0190]; Figures 1,2 and 18);

wherein said display and said touch sensitive display display said two adjoining display portions as a single display output (Paragraphs [0012], [0256]; Figures 1, 2, 52d), and

wherein only said touch-sensitive display is touch-sensitive (Figures 18 and 103).

Regarding claim 9, Bogward disclosed the method of claim 8, wherein the display is rotatably attachable to the touch-sensitive display (Paragraphs [0156], [0190]; Figures 1, 18 and 19).

Regarding claim 10, Bogward disclosed the method of claim 8, wherein said touch-sensitive display further comprises displaying a user-interface comprising a keyboard (Paragraphs [0012] and [0047]; Figures 1 and 34).

Regarding claim 12, Bogward disclosed the method of claim 10, further comprising reconfiguring the user-interface in response to an application state (Paragraphs [0062], [0170], [0205] and [0253-0262]; Figures 48, 52b-d, and 53; where interface is reconfigurable depending on settings, configurations, right/hand left hand modes, state of use).

Regarding claim 13, Bogward disclosed the method of claim 12, wherein reconfiguring the user- interface comprises reconfiguring the user-interface in response to a user preference (Paragraphs [0062], [0170], [0205] and [0253-0262]; Figures 48, 52b-d, and 53; where interface is reconfigurable depending on settings, configurations, user preference of right/hand left hand modes, state of use).

Regarding claim 14, Bogward disclosed the method of claim 12, wherein reconfiguring the user- interface comprises reconfiguring the user-interface in response to a user instruction (Paragraphs [0062], [0170], [0205] and [0253-0262]; Figures 48, 52b-d, and 53; where interface is reconfigurable depending on settings, configurations, user preference of right/hand left hand modes, state of use).

Regarding claim 16, Bogward disclosed the method of claim 8, further comprising displaying a hot key that triggers the execution of a plurality of instructions in

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accordance with a state of the portable computing device (Paragraphs [0159-0163], [0178]; Figures 1-3 and 12; where keys trigger applications).

Regarding claim 17, Bogward disclosed the method of claim 8, further comprising displaying an application result (Paragraphs [0159-0163], [0178]; Figures 1-3 and 12; where keys trigger applications).

Regarding claim 18, Bogward disclosed the method of claim 17, wherein displaying an application result comprises displaying a first page of an electronic book on one of the display and the touch-sensitive display (Paragraphs [0107], [0256], [0235]; Figures 41c, 52d, and 85).

Regarding claim 19, Bogward disclosed the method of claim 18, wherein the displaying of the application result further comprises displaying a second page of an electronic book on the other one of the display and the touch-sensitive display (Paragraphs [0107], [0256], [0235]; Figures 41c, 52d, and 85).

Regarding claim 22, Bogward disclosed a programmable storage medium tangibly embodying a program of machine-readable instructions executable by a digital processor for driving a portable computing device having a display attachable to a touch-sensitive display secondary and attachable to the display, the program comprising:

instructions displaying a first of two adjoining display portions of a single display output in one of said display and said touch-sensitive display (Paragraphs [0012], [0190]; Figures 1,2 and 18);

instructions displaying a second of said two adjoining display portions of said single display output in the other of said display and said touch-sensitive display (Paragraphs [0012], [0190]; Figures 1,2 and 18);

wherein said display and touch-sensitive display display said two adjoining portions as a single display output (Paragraphs [0012], [0256]; Figures 1, 2, 52d), and

wherein only said touch-sensitive display is touch-sensitive (Figures 18 and 103).

Regarding claim 23, Bogward disclosed a portable computing device comprising:

a display (Paragraphs [0012], [0190]; Figures 1,2 and 18);

touch-sensitive display which is secondary and attached to the display (Paragraphs [0012], [0190]; Figures 1,2 and 18);

means for displaying a first of two adjoining display portions of a single display output in one of said display and said touch-sensitive display (Paragraphs [0012], [0190]; Figures 1,2 and 18);

means for displaying a second of said two adjoining display portions of said single display output in the other of said display and said touch-sensitive display (Paragraphs [0012], [0190]; Figures 1,2 and 18);

wherein said display and touch-sensitive display display said two adjoining portions as a single display output (Paragraphs [0012], [0256]; Figures 1, 2, 52d), and



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wherein said touch-sensitive display displays a reconfigurable user-interface that overlays a portion of said single display output (Paragraphs [0012], [0062], [0170], [0205] and [0253-0262]; Figures 1-3, 48, 52b-d, and 53; where interface is reconfigurable depending on settings, configurations, right/hand left hand modes, applications of use).

Regarding claim 24, Bogward disclosed a method of providing a display for a portable computing device, the method comprising:

providing a display (Paragraphs [0012], [0190]; Figures 1,2 and 18); and

providing a touch-sensitive display which is secondary and attachable to the first display (Paragraphs [0012], [0190]; Figures 1,2 and 18); and

displaying on said touch-sensitive display a reconfigurable user-interface that overlays a portion of said single display output (Paragraphs [0012], [0062], [0170], [0205] and [0253-0262]; Figures 1-3, 48, 52b-d, and 53; where interface is reconfigurable depending on settings, configurations, right/hand left hand modes, applications of use),

wherein said display and said touch-sensitive display display two adjoining display portions of a single display output (Paragraphs [0012], [0256]; Figures 1, 2, 52d).

Regarding claim 25, Bogward disclosed a portable computing device comprising:

a first display including a touch-sensitive user-interface (Paragraphs [0012], [0190]; Figures 1,2 and 18); and

a second display including another touch-sensitive user-interface attachable to the first display (Paragraphs [0012], [0190]; Figures 1,2 and 18),

wherein said first and second displays display two adjoining display portions of a single display output (Paragraphs [0012], [0256]; Figures 1, 2, 52d),

wherein said touch-sensitive display displays a reconfigurable user-interface that overlays a portion of said single display output (Paragraphs [0012], [0062], [0170], [0205] and [0253-0262]; Figures 1-3, 48, 52b-d, and 53; where interface is reconfigurable depending on settings, configurations, right/hand left hand modes, applications of use, and

wherein said first and second displays receive user input on each touch sensitive user- interface (Paragraphs [0012], [0190]; Figures 1,2 and 18).

Regarding claim 26, Bogward disclosed the portable computing device of claim 4, wherein said user- interface is configurable to one of:

remove a key from the user-interface;

change a label on a key on a user-interface; and

change a color of a key on the user-interface (Paragraphs [0012], [0062], [0170], [0205] and [0253-0262]; Figures 1-3, 48, 52b-d, and 53; where interface is reconfigurable depending on settings, configurations, right/hand left hand modes,

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applications of use, therefore keys are removed, changed etc.

Regarding claim 27, Bogward disclosed the method of claim 8, further comprising:  
displaying on said touch-sensitive display a user-interface that overlays a portion of  
said single display output (Paragraph [0012]; Figures 1, 2 and 32).

Regarding claim 28, Bogward disclosed a portable computing device comprising:

- a display Paragraphs [0012], [0190]; Figures 1,2 and 18);; and

- a touch-sensitive display which is secondary and attachable to the display  
Paragraphs [0012], [0190]; Figures 1,2 and 18),

- wherein said display and said touch-sensitive display display two adjoining  
display portions of a single display output (Paragraphs [0012], [0256]; Figures 1, 2,  
52d),

- wherein only said touch-sensitive display is touch-sensitive (Figures 18 and 103),  
and

- wherein said touch-sensitive display displays a reconfigurable user interface that  
overlays a portion of said single display output Paragraphs [0012], [0062], [0170], [0205]  
and [0253-0262]; Figures 1-3, 48, 52b-d, and 53; where interface is reconfigurable  
depending on settings, configurations, right/hand left hand modes, applications of use).

Regarding claim 29, Bogward disclosed the portable computing device according to  
claim 1, wherein said touch- sensitive display displays a reconfigurable user interface

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(Paragraphs [0062], [0170], [0205] and [0253-0262]; Figures 48, 52b-d, and 53; where interface is reconfigurable depending on settings, configurations, right/hand left hand modes, applications of use).

Regarding claim 30, Bogward disclosed the portable computing device according to claim 29, wherein said reconfigurable user interface comprises a reconfigurable keyboard (Paragraphs [0012], [0047], [0050], [0226], Figures 1, 32, 34, 37, 38; where keyboard is reconfigurable depending on type of use)

Regarding claim 31, Bogward disclosed the portable computing device according to claim 29, wherein said reconfigurable user interface comprises a reconfigurable alpha-numeric keyboard (Paragraphs [0012], [0047], [0050], [0226], Figures 1, 32, 34, 37, 38; where keyboard is reconfigurable depending on type of use)

Regarding claim 32, Bogward disclosed the portable computing device according to claim 30, wherein said reconfigurable keyboard is customizable based on a software application being used (Paragraphs [0012], [0047], [0050], [0226], Figures 1, 32, 34, 37, 38; where keyboard is reconfigurable depending on type of use)

Regarding claim 34, Bogward disclosed the portable computing device according to claim 30, wherein said reconfigurable keyboard comprises an alphabetical keyboard, and

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wherein said user interface is configured to dynamically generate a numeric keypad over the alphabetical keyboard (Paragraphs [0051], [0230], Figures 32 and 38).

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claim 20 is rejected under 35 U.S.C. 103(a) as being obvious over Bogward (US 20040049743) in view of Zak et al (US 20020004729).

Regarding claim 20, the rejection of claim 8 is incorporated and Bogward further disclosed comprising menus on the touch-sensitive display (Paragraph [0019]; Figures 8A-E). Bogward did not specifically disclose that those menus were drop-down menus. However, in an analogous art, Zak disclosed using drop-down menus on touch-sensitive display screens (Paragraphs [0057], [0078]). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of Zak into the system of Bogward since doing so would provide for easy display and selection of menu options.

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7. Claims 21 is rejected under 35 U.S.C. 103(a) as being obvious over Bogward (US 20040049743) in view of Retter (USPN 5,825,362).

Regarding claim 21, the rejection of claim 10 is incorporated and further Bogward does not specifically disclose wherein displaying the user-interface comprises displaying a color-coded keyboard. However, Retter discloses a user-interface with a color-coded keyboard (Column 8, lines 34-53; Figure 7). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of Retter into the system of Bogward since using a color-coded keyboard would allow users to more easily discern keys and makes a keyboard more user-friendly.

8. Claims 33 is rejected under 35 U.S.C. 103(a) as being obvious over Bogward (US 20040049743) in view of Dardick (US 2002/0075317).

Regarding claim 33, the rejection of claim 30 is incorporated and Bogward did not specifically disclose the portable computing device according to claim 30, wherein at least a portion of said reconfigurable keyboard is disabled when the least a portion of said reconfigurable keyboard is not appropriate for a current state of application. However, in an analogous art, Dardick disclosed customizing a touch-sensitive keyboard by displaying or hiding certain keys depending on necessity (Paragraphs [0008-0009]). It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of Dardick into the system of

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Bogward since doing so would provide users with a customizable keyboard (Dardick [0008]) and help users distinguish which keys are currently applicable.

### ***Response to Arguments***

9. Applicant's arguments with respect to claims 23-27, 1, 2, 4-10, 12-14, 16-22, and 28 have been considered but are moot in view of the new ground(s) of rejection shown in the rejection above.

10. The 101 rejection of claim 22 has been removed.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KIM-LYNN DAM whose telephone number is (571)270-1408. The examiner can normally be reached on M-TH 8:00-5:30, every other Friday 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Weilun Lo can be reached on (571) 272-4847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kim-Lynn Dam

/Ba Huynh/

Primary Examiner, Art Unit 2179